

BK

Notice of Allowability

Application No.

09/725,532

Examiner

Edith M. Chang

Applicant(s)

MIYAMOTO ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on Feb 15, 2006.
2. ☒ The allowed claim(s) is/are 5,7,10-12 renumbered 1-5 respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


JEAN B. CORRIELUS
 PRIMARY EXAMINER
 8-17-06

DETAILED ACTION

Response to Arguments/Remarks

1. Applicant's arguments, see page 6, filed Feb 15, 2006, with respect to claims 5, 7, and 10-12 have been fully considered and are persuasive. The objection of claims 5, 7, and 10-12 has been withdrawn.

Allowable Subject Matter

2. Claims 5, 7 and 10-12 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest, alone or in a combination, among other things, at least a signal cancellation method as a whole, the combination of elements and features as claimed, which includes at least combining splitting an input signal into a first and a second signal, wherein said second signal is split into mutually orthogonal first and second subsignals and a third subsignal having a freely selected phase in the opposite quadrant as said first and second subsignals and said third subsignal is delayed, said first and second subsignals are recombined in antiphase with said third subsignal after the amplitudes of said first and second subsignals have been adjusted as recited in the claims.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M. Chang whose telephone number is 571-272-3041. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed H. Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Edith Chang
August 8, 2006


JEAN B. CORRIELUS
PRIMARY EXAMINER
8-17-06

REPLACEMENT SHEET

please enter
Shih Chang 8/15/06

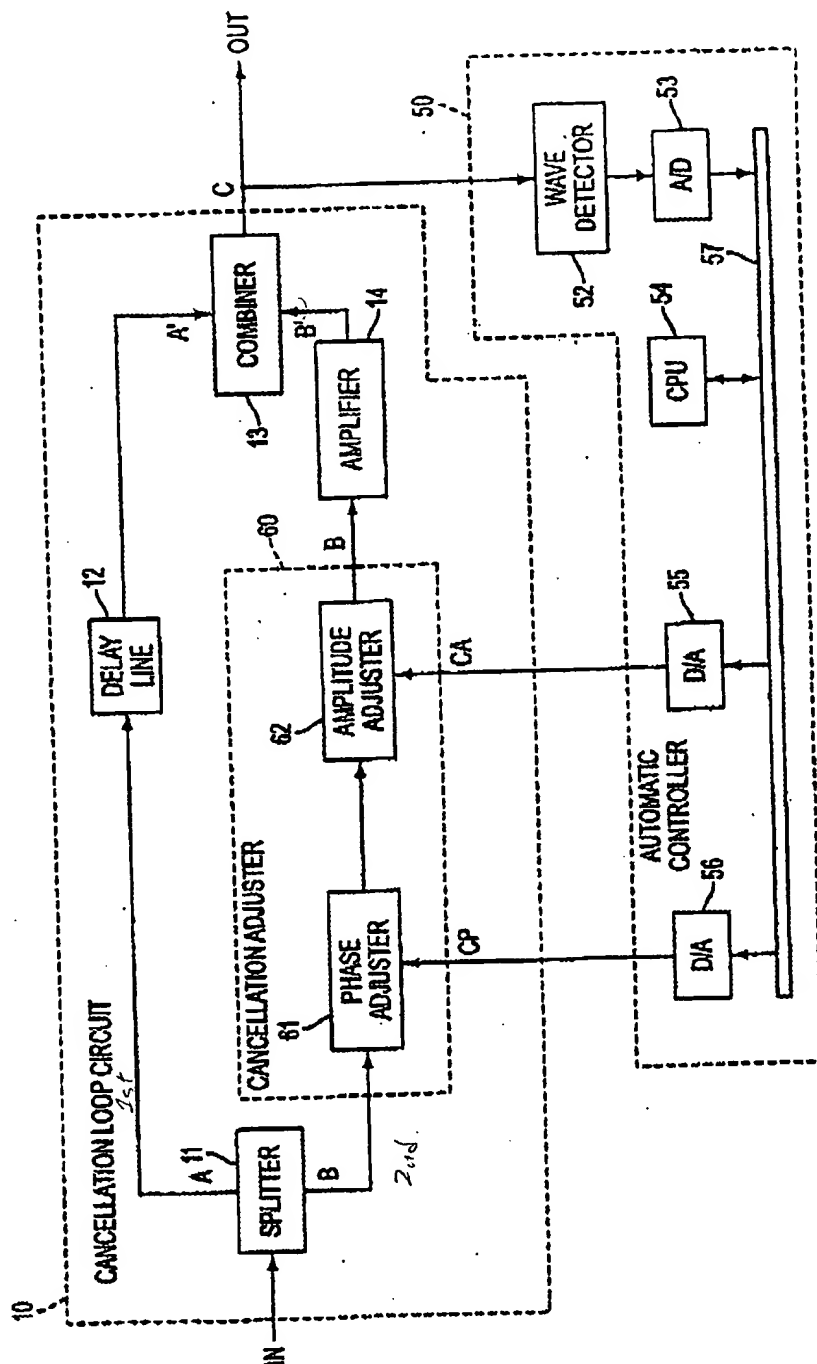
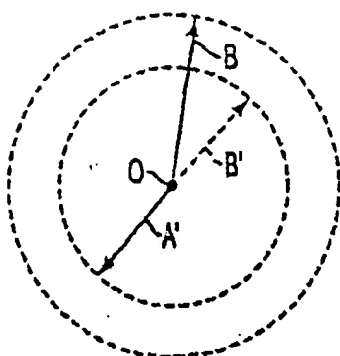
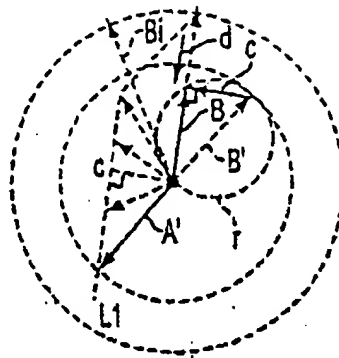


FIG. 15
(PRIOR ART)

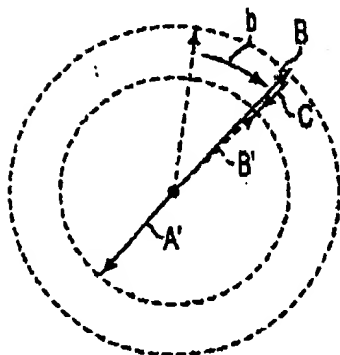
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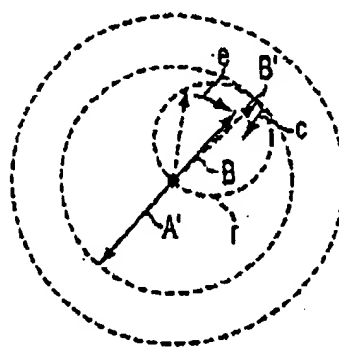
INITIAL STATUS
FIG. 16A
(PRIOR ART)



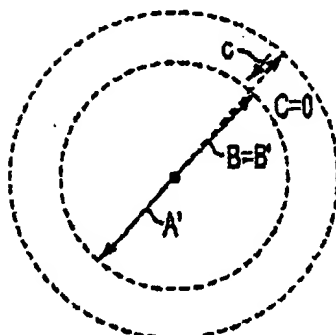
AMPLITUDE CONTROL
FIG. 16D
(PRIOR ART)



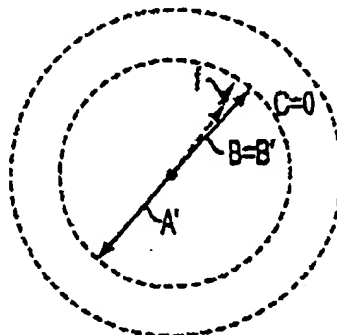
PHASE CONTROL
FIG. 16B
(PRIOR ART)



PHASE CONTROL
FIG. 16E
(PRIOR ART)



AMPLITUDE CONTROL
FIG. 16C
(PRIOR ART)



AMPLITUDE CONTROL
FIG. 16F
(PRIOR ART)

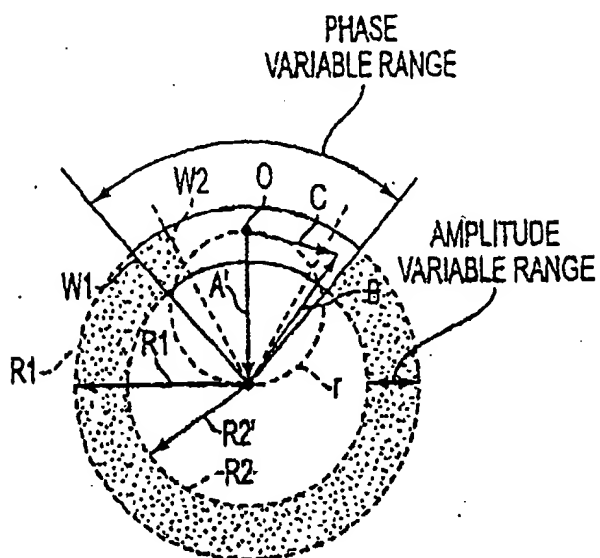
REPLACEMENT SHEET

FIG. 17A
(PRIOR ART)

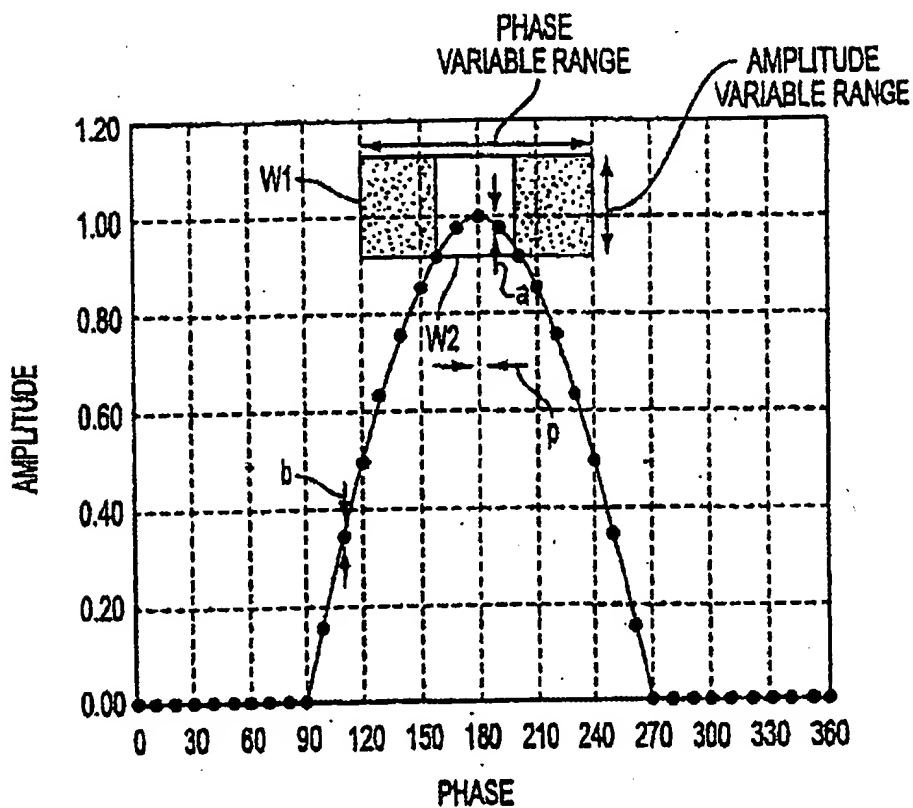
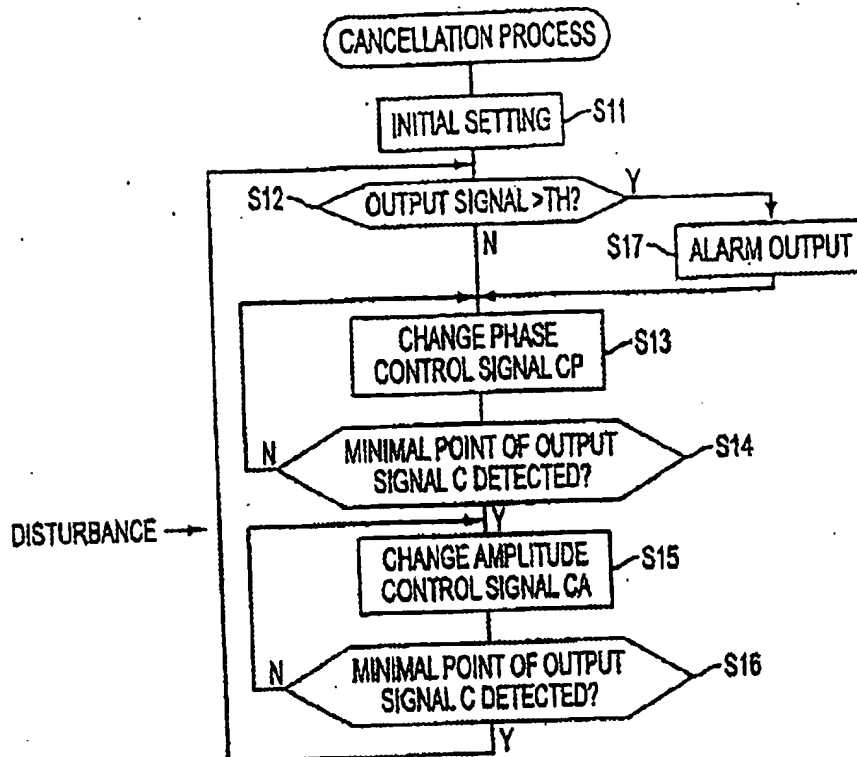
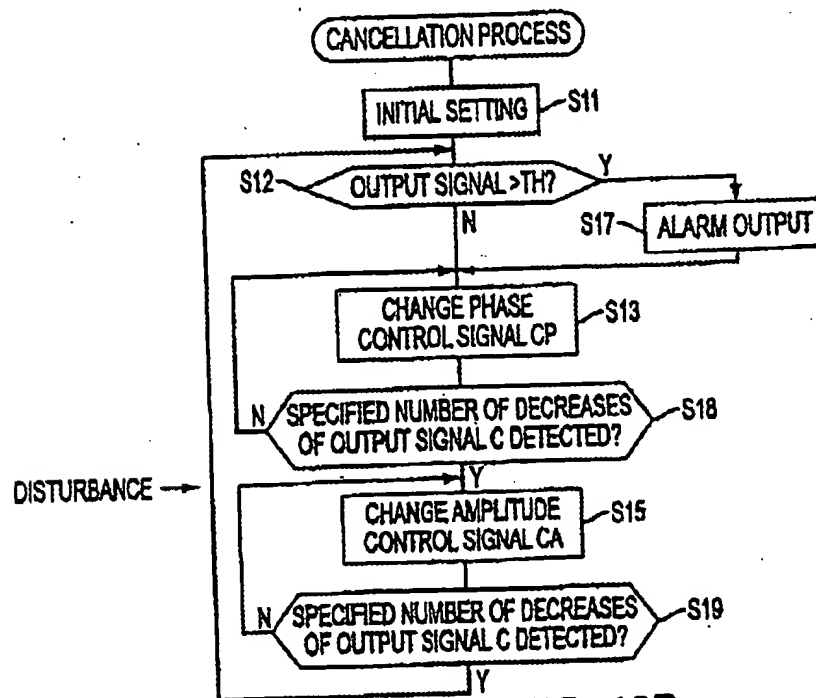


FIG. 17B
(PRIOR ART)

REPLACEMENT SHEETFIG. 18A
(PRIOR ART)FIG. 18B
(PRIOR ART)

NEW SHEET

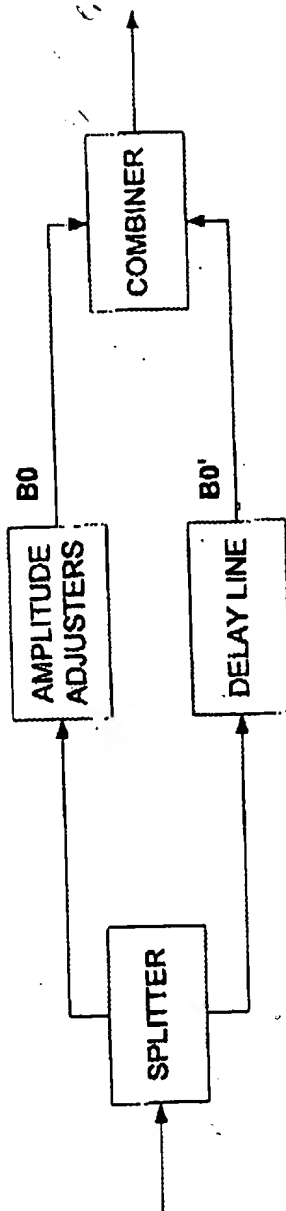


FIG. 19

NEW SHEET

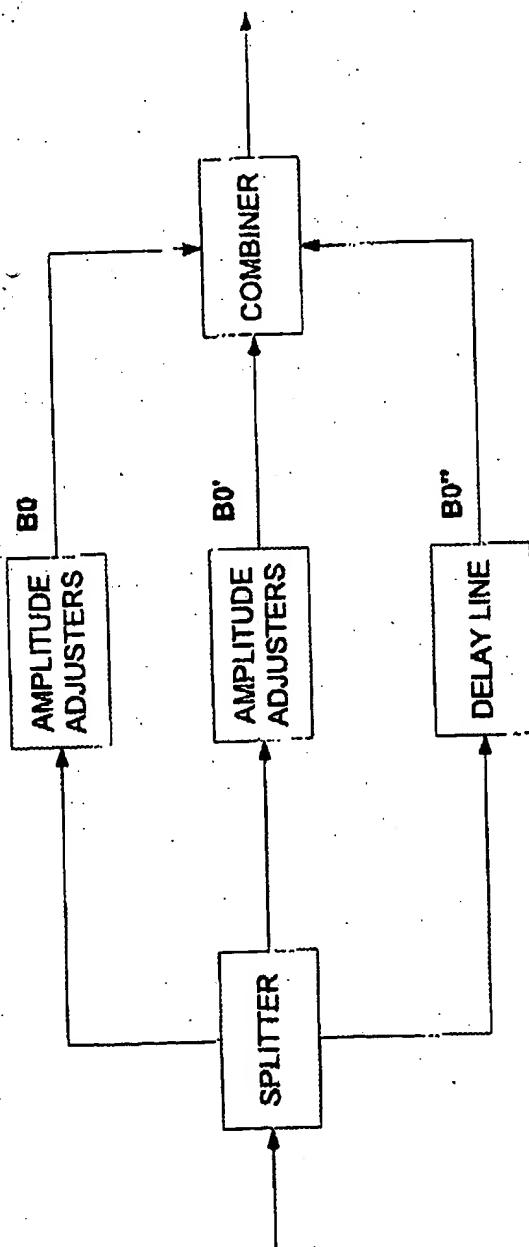


FIG. 20